



July 2009

**DEPARTMENT OF EDUCATION**  
2008–2009 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State accountability standards of Maine's *Learning Results*. The *Learning Results* contain goals for what all students should know and be able to do at certain times in their school careers and include the accountability standards that are assessed for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2008-2009 MEA Summary Reports contain the results of student achievement in reading and mathematics at all grades and science at grades 5 and 8 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. More information about the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the assessments.

Sincerely,

Susan A. Gendron  
Commissioner of Education



## School Report Grade 8

Test Date: March 2009  
Code: 11231330  
SAU: Orono School Department  
School: Orono Middle School

### Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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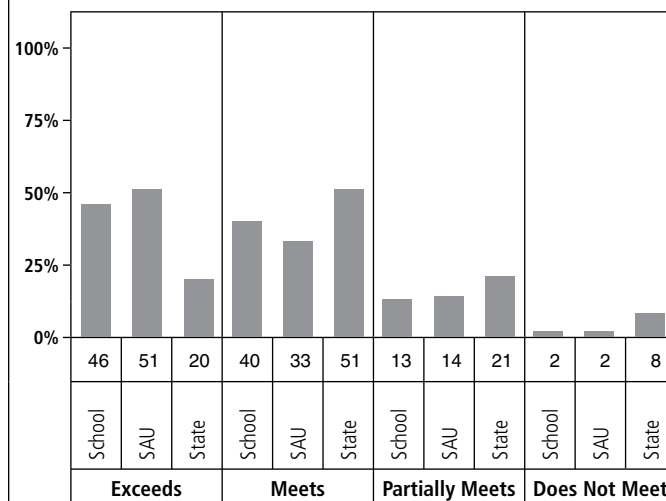
# SUMMARY OF SCORES

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

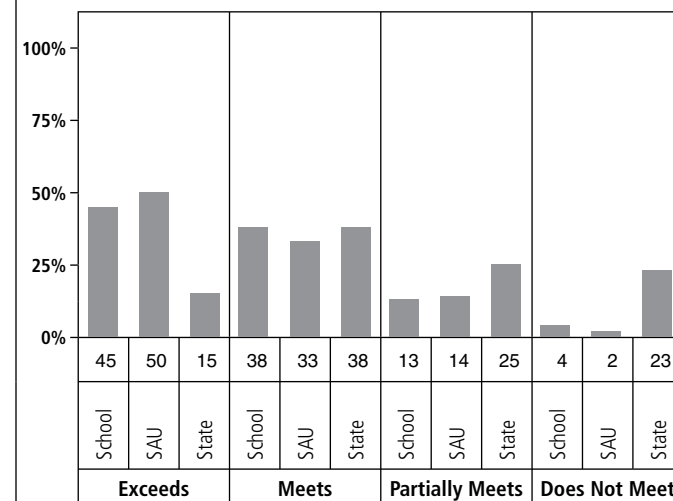
## Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
<b>ELA – Reading</b>			
2006–2007	855	856	847
2007–2008	859	860	849
<b>2008–2009</b>	<b>858</b>	<b>859</b>	<b>850</b>
Cum. Avg.*	857	858	849
<b>Mathematics</b>			
2006–2007	853	853	842
2007–2008	857	858	841
<b>2008–2009</b>	<b>860</b>	<b>861</b>	<b>843</b>
Cum. Avg.*	856	857	842
<b>Science</b>			
<b>2008–2009 **</b>	<b>859</b>	<b>859</b>	<b>846</b>

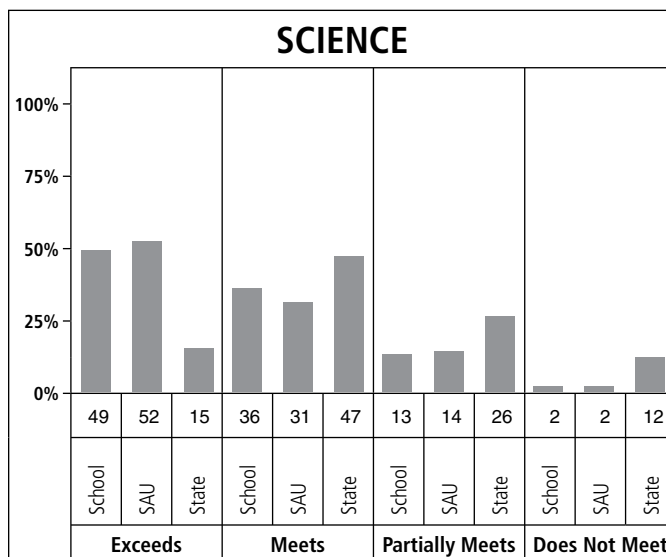
### ELA – READING



### MATHEMATICS



### SCIENCE



\*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

\*\* Because science standards were reset in May 2009, no historical data are available

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

CATEGORY OF PARTICIPATION	Enrollment <sup>1</sup> during testing window						CONTENT AREA PARTICIPATION <sup>2</sup>																	
							ELA-Reading						Mathematics						Science					
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
<b>Total number of students</b>	48	100	43	100	14804	100	48	100	43	100	14659	99	48	100	43	100	14653	99	48	100	43	100	14626	99
<b>Ethnicity</b> African American/Black	0	0	0	0	377	3	0	0	0	0	366	97	0	0	0	0	371	98	0	0	0	0	367	97
American Indian or Native Alaskan	4	8	2	5	119	1	4	100	2	100	117	99	4	100	2	100	115	97	4	100	2	100	116	98
Asian or Pacific Islander	1	2	1	2	238	2	1	100	1	100	232	97	1	100	1	100	234	98	1	100	1	100	234	98
Hispanic	1	2	1	2	192	1	1	100	1	100	188	98	1	100	1	100	191	100	1	100	1	100	190	99
Caucasian/White	42	88	39	91	13878	94	42	100	39	100	13756	99	42	100	39	100	13742	99	42	100	39	100	13719	99
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Identified disability</b>	11	23	10	23	2489	17	11	100	10	100	2434	99	11	100	10	100	2424	98	11	100	10	100	2418	98
<b>Current LEP</b>	0	0	0	0	349	2	0	0	0	0	331	95	0	0	0	0	342	98	0	0	0	0	338	97
<b>Economically disadvantaged</b>	12	25	12	28	5460	37	12	100	12	100	5380	99	12	100	12	100	5377	99	12	100	12	100	5359	98
<b>Migrant</b>	0	0	0	0	6	0	0	0	0	0	6	100	0	0	0	0	6	100	0	0	0	0	6	100

MODE OF PARTICIPATION <sup>3</sup>	ELA-Reading						Mathematics						Science					
	School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
<b>Participation without accommodations</b>	38	79	35	81	12132	82	38	79	35	81	12124	82	38	79	35	81	12169	82
Identified disability (PET/IEP)	2	5	2	6	379	3	2	5	2	6	380	3	2	5	2	6	425	3
LEP	0	0	0	0	166	1	0	0	0	0	169	1	0	0	0	0	168	1
504 plan	3	8	3	9	200	2	3	8	3	9	200	2	3	8	3	9	202	2
<b>Participation with accommodations</b>	10	21	8	19	2349	16	9	19	7	16	2347	16	9	19	7	16	2288	15
Identified disability (PET/IEP)	9	90	8	100	1877	80	8	89	7	100	1862	79	8	89	7	100	1824	80
LEP	0	0	0	0	158	7	0	0	0	0	167	7	0	0	0	0	165	7
504 plan	1	10	1	13	70	3	1	11	1	14	70	3	1	11	1	14	66	3
Other	1	10	0	0	292	12	1	11	0	0	297	13	1	11	0	0	280	12
<b>Participation through alternate assessment (PAAP)</b>	0	0	0	0	178	1	1	2	1	2	182	1	1	2	1	2	169	1
Identified disability (PET/IEP)	0	0	0	0	178	100	1	100	1	100	182	100	1	100	1	100	169	100
LEP	0	0	0	0	7	4	0	0	0	0	6	3	0	0	0	0	5	3
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Approved non-participation in reading – 1st year LEP</b>	0	0	0	0	0	0												
<b>Approved non-participation – special consideration</b>	0	0	0	0	32	0	0	0	0	0	34	0	0	0	0	0	38	0
<b>Non-participation – other</b>	0	0	0	0	113	1	0	0	0	0	117	1	0	0	0	0	140	1

<sup>1</sup>Percents are the percentage of students enrolled in each participation category.

<sup>2</sup>Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

<sup>3</sup>Percents are the percentage of students in each content area by mode.

# ELA–READING RESULTS

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (Scaled Score 862–880)	2006-2007	23	43	23	43	2407	16
	2007-2008	20	45	20	47	3428	23
	<b>2008-2009</b>	<b>22</b>	<b>46</b>	<b>22</b>	<b>51</b>	<b>2857</b>	<b>20</b>
	Cum. Total*	65	45	65	47	8692	19
<b>Meets the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (Scaled Score 842–860)	2006-2007	21	39	21	40	7494	49
	2007-2008	21	48	20	47	7179	48
	<b>2008-2009</b>	<b>19</b>	<b>40</b>	<b>14</b>	<b>33</b>	<b>7431</b>	<b>51</b>
	Cum. Total*	61	42	55	40	22104	49
<b>Partially Meets the Standards</b> – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (Scaled Score 830–840)	2006-2007	6	11	5	9	3628	24
	2007-2008	3	7	3	7	2706	18
	<b>2008-2009</b>	<b>6</b>	<b>13</b>	<b>6</b>	<b>14</b>	<b>2979</b>	<b>21</b>
	Cum. Total*	15	10	14	10	9313	21
<b>Does Not Meet the Standards</b> – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (Scaled Score 800–828)	2006-2007	4	7	4	8	1810	12
	2007-2008	0	0	0	0	1611	11
	<b>2008-2009</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1214</b>	<b>8</b>
	Cum. Total*	5	3	5	4	4635	10

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Reading Total Points	56	100	40.9	73.0	41.3	73.8	35.5	63.4
A1/A2 Interconnected Elements/Literary Text	20	36	14.3	71.5	14.4	72.0	12.3	61.5
A1/A3/4 Interconnected Elements/Informational Text/Persuasive Text	36	64	26.6	73.9	26.9	74.7	23.2	64.4

The MEA measures student achievement of the interconnected elements of the reading process based on questions related to literary and informational/persuasive reading passages. Reading passages include both long and short texts, selected from developmentally appropriate works. MEA reading items measure the English Language Arts accountability content standard A, Reading, contained in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at:  
<http://www.maine.gov/education/lres/pei/index.html>.

# ELA-READING RESULTS

## (CONTINUED)

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	48	22	46	19	40	6	13	1	2	858	43	51	33	14	2	859	14481	20	51	21	8	850
<b>Ethnicity</b>																						
African American/Black	0										0						362	8	43	29	20	843
American Indian or Native Alaskan	4										2						116	10	46	26	18	843
Asian or Pacific Islander	1										1						231	28	43	19	10	851
Hispanic	1										1						186	17	48	23	12	847
Caucasian/White	42	20	48	16	38	5	12	1	2	858	39	51	33	13	3	859	13586	20	52	20	8	850
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	11	1	9	4	36	5	45	1	9	843	10	10	30	50	10	842	2256	2	25	40	34	834
No	37	21	57	15	41	1	3	0	0	863	33	64	33	3	0	864	12225	23	56	17	4	853
<b>Current LEP</b>																						
Yes	0										0						324	5	34	36	26	838
No	48	22	46	19	40	6	13	1	2	858	43	51	33	14	2	859	14157	20	52	20	8	850
<b>Economically disadvantaged</b>																						
Yes	12	1	8	5	42	5	42	1	8	846	12	8	42	42	8	846	5277	10	46	29	15	844
No	36	21	58	14	39	1	3	0	0	862	31	68	29	3	0	864	9204	26	54	16	5	853
<b>Migrant</b>																						
Yes	0										0						5	0	40	60	0	841
No	48	22	46	19	40	6	13	1	2	858	43	51	33	14	2	859	14476	20	51	21	8	850
<b>Gender</b>																						
Female	17	8	47	5	29	3	18	1	6	857	15	53	20	20	7	857	7074	25	51	18	6	852
Male	31	14	45	14	45	3	10	0	0	859	28	50	39	11	0	860	7407	14	51	23	11	847
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	20	2	10	14	70	4	20	0	0	851	15	13	60	27	0	850	857	9	43	35	14	843
No	28	20	71	5	18	2	7	1	4	864	28	71	18	7	4	864	13624	20	52	20	8	850
<b>Gifted/talented program</b>																						
Yes	2										2						700	69	30	1	0	867
No	46	20	43	19	41	6	13	1	2	857	41	49	34	15	2	858	13781	17	52	22	9	849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# ELA-READING RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2009

Grade: 8

SAU: Orono School Department

School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	15	3	43	3	43	1	14	0	0	857	14	50	33	17	0	858	8	8	39	29	24	841
B. less than one hour	49	8	35	12	52	2	9	1	4	856	45	42	42	11	5	856	51	17	53	22	8	849
C. one to two hours	30	10	71	2	14	2	14	0	0	864	33	71	14	14	0	864	36	24	52	18	5	852
D. more than two hours	6	1	33	2	67	0	0	0	0	859	7	33	67	0	0	859	5	29	45	18	9	852
<b>Which of the following best describes how you rate yourself as a student in reading?</b>																						
A. very good	28	11	85	2	15	0	0	0	0	868	31	85	15	0	0	868	31	35	50	11	4	856
B. good	51	10	42	10	42	4	17	0	0	858	52	45	36	18	0	858	47	16	55	21	7	849
C. fair	17	1	13	6	75	0	0	1	13	849	12	20	60	0	20	848	18	5	47	33	15	842
D. poor	4	0	0	1	50	1	50	0	0	841	5	0	50	50	0	841	3	2	39	37	22	839
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?</b>																						
A. The questions on the test match what I have learned in reading class.	61	14	50	11	39	3	11	0	0	859	59	58	29	13	0	861	32	27	54	14	5	853
B. They match some of what I have learned.	26	8	67	4	33	0	0	0	0	865	27	73	27	0	0	866	52	18	53	22	8	850
C. They match just a little of what I have learned.	11	0	0	2	40	2	40	1	20	840	12	0	40	40	20	840	12	11	45	29	15	844
D. There is no match.	2	0	0	1	100	0	0	0	0	848	2	0	100	0	0	848	4	6	34	33	26	838
<b>How difficult was the reading part of this test?</b>																						
A. more difficult than my regular schoolwork	17	5	63	2	25	1	13	0	0	862	19	63	25	13	0	862	15	13	42	28	17	844
B. about the same as my regular schoolwork	57	12	44	11	41	3	11	1	4	857	55	52	30	13	4	858	64	19	53	20	7	850
C. easier than my regular schoolwork	26	5	42	6	50	1	8	0	0	859	26	45	45	9	0	860	22	25	52	16	6	852
<b>How difficult were the reading passages on this test?</b>																						
A. Most of the passages were more difficult than what I normally read.	13	2	33	3	50	1	17	0	0	851	15	33	50	17	0	851	8	6	34	34	26	838
B. Most of the passages were about the same as what I normally read.	41	3	16	12	63	3	16	1	5	851	34	21	50	21	7	851	52	14	54	24	8	848
C. Most of the passages were easier than what I normally read.	46	16	76	4	19	1	5	0	0	866	51	76	19	5	0	866	40	30	53	13	4	855
<b>How hard did you try on the reading part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	51	13	54	8	33	2	8	1	4	860	57	54	33	8	4	860	39	19	50	22	9	849
B. I tried about the same as I do on my regular schoolwork.	47	9	41	10	45	3	14	0	0	857	40	53	29	18	0	859	54	21	53	19	7	851
C. I did not try as hard on this test as I do on my regular schoolwork.	2	0	0	1	100	0	0	0	0	848	2	0	100	0	0	848	7	12	46	27	15	845
<b>How much time do you spend reading at home each day?</b>																						
A. more than one hour	15	5	71	2	29	0	0	0	0	864	17	71	29	0	0	864	19	26	53	15	6	853
B. 20 minutes to an hour	55	12	46	9	35	4	15	1	4	858	60	48	32	16	4	858	40	25	52	17	6	852
C. less than 20 minutes	13	4	67	2	33	0	0	0	0	865	12	80	20	0	0	867	15	18	51	21	10	849
D. I rarely read at home.	17	1	13	6	75	1	13	0	0	850	12	20	60	20	0	851	26	7	50	30	13	844
<b>How do you feel about the following statement?</b>																						
<b>"My knowledge of reading will be useful to me as an adult."</b>																						
A. strongly agree	45	9	43	9	43	3	14	0	0	859	48	45	40	15	0	859	42	27	51	15	6	853
B. agree	43	12	60	6	30	1	5	1	5	860	45	63	26	5	5	861	50	15	53	23	9	848
C. disagree	11	1	20	4	80	0	0	0	0	852	5	50	50	0	0	858	7	8	46	32	14	843
D. strongly disagree	2	0	0	0	0	1	100	0	0	836	2	0	0	100	0	836	2	6	39	35	21	840
<b>Optional school/SAU question</b>																						
A.	33	0	0	1	100	0	0	0	0	848	33	0	100	0	0	848						
B.	0										0											
C.	67	0	0	1	50	1	50	0	0	841	67	0	50	50	0	841						
D.	0										0											

# MATHEMATICS RESULTS

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (Scaled Score 862–880)	2006-2007	18	33	18	34	1952	13
	2007-2008	15	34	15	35	1657	11
	<b>2008-2009</b>	<b>21</b>	<b>45</b>	<b>21</b>	<b>50</b>	<b>2116</b>	<b>15</b>
	Cum. Total*	54	37	54	39	5725	13
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (Scaled Score 842–860)	2006-2007	20	37	20	38	5870	38
	2007-2008	21	48	21	49	5956	40
	<b>2008-2009</b>	<b>18</b>	<b>38</b>	<b>14</b>	<b>33</b>	<b>5443</b>	<b>38</b>
	Cum. Total*	59	41	55	40	17269	39
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (Scaled Score 830–840)	2006-2007	11	20	11	21	3982	26
	2007-2008	4	9	3	7	3729	25
	<b>2008-2009</b>	<b>6</b>	<b>13</b>	<b>6</b>	<b>14</b>	<b>3556</b>	<b>25</b>
	Cum. Total*	21	14	20	14	11267	25
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (Scaled Score 800–828)	2006-2007	5	9	4	8	3534	23
	2007-2008	4	9	4	9	3579	24
	<b>2008-2009</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>2</b>	<b>3356</b>	<b>23</b>
	Cum. Total*	11	8	9	7	10469	23

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Mathematics Total Points</b>	<b>56</b>	<b>100</b>	39.2	70.0	40.4	72.1	28.6	51.1
<b>A. Number</b>	<b>8</b>	<b>14</b>	6.0	75.0	6.3	78.8	3.7	46.3
<b>B. Data</b>	<b>16</b>	<b>29</b>	11.6	72.5	11.9	74.4	8.9	55.6
<b>C. Geometry</b>	<b>12</b>	<b>21</b>	7.2	60.0	7.4	61.7	5.0	41.7
<b>D. Algebra</b>	<b>20</b>	<b>36</b>	14.3	71.5	14.7	73.5	10.9	54.5

The MEA assesses students’ mathematics knowledge based on questions that measure the mathematics accountability content standards contained in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: <http://www.maine.gov/education/lres/pei/index.html>.

Content Standard A, Number, includes Whole Number, Rational Number, and Real Number.

Content Standard B, Data, includes Measurement and Approximation, Data Analysis, and Probability.

Content Standard C, Geometry, includes Geometric Figures, Geometric Measurement, and Transformations.

Content Standard D, Algebra, includes Symbols and Expressions, Equations and Inequalities, and Functions and Relations.

# MATHEMATICS RESULTS

## (CONTINUED)

Test Date: March 2009  
 Grade: 8  
 SAU: Orono School Department  
 School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	47	21	45	18	38	6	13	2	4	860	42	50	33	14	2	861	14471	15	38	25	23	843
<b>Ethnicity</b>																						
African American/Black	0										0						367	6	24	26	44	831
American Indian or Native Alaskan	4										2						114	5	31	32	32	836
Asian or Pacific Islander	1										1						233	27	33	20	21	847
Hispanic	1										1						190	8	31	26	34	836
Caucasian/White	41	20	49	14	34	5	12	2	5	860	38	53	32	13	3	862	13567	15	38	25	22	843
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	10	1	10	3	30	4	40	2	20	840	9	11	33	44	11	843	2242	2	12	22	63	824
No	37	20	54	15	41	2	5	0	0	865	33	61	33	6	0	866	12229	17	42	25	16	846
<b>Current LEP</b>																						
Yes	0										0						336	6	18	26	51	829
No	47	21	45	18	38	6	13	2	4	860	42	50	33	14	2	861	14135	15	38	25	23	843
<b>Economically disadvantaged</b>																						
Yes	11	1	9	5	45	4	36	1	9	845	11	9	45	36	9	845	5270	6	30	28	36	835
No	36	20	56	13	36	2	6	1	3	864	31	65	29	6	0	867	9201	20	42	22	16	847
<b>Migrant</b>																						
Yes	0										0						5	0	0	40	60	828
No	47	21	45	18	38	6	13	2	4	860	42	50	33	14	2	861	14466	15	38	25	23	843
<b>Gender</b>																						
Female	17	6	35	7	41	2	12	2	12	856	15	40	40	13	7	859	7070	15	39	25	22	843
Male	30	15	50	11	37	4	13	0	0	862	27	56	30	15	0	863	7401	14	36	25	25	842
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	20	2	10	13	65	4	20	1	5	849	15	13	60	27	0	851	857	5	25	33	37	835
No	27	19	70	5	19	2	7	1	4	867	27	70	19	7	4	867	13614	15	38	24	22	843
<b>Gifted/talented program</b>																						
Yes	2										2						700	68	27	3	1	866
No	45	19	42	18	40	6	13	2	4	859	40	48	35	15	3	861	13771	12	38	26	24	841

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



# MATHEMATICS RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2009

Grade: 8

SAU: Orono School Department

School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	15	4	57	2	29	1	14	0	0	860	14	67	17	17	0	862	8	8	24	24	44	833
B. less than one hour	49	6	26	11	48	4	17	2	9	854	45	32	42	21	5	856	51	12	38	26	23	842
C. one to two hours	30	9	64	4	29	1	7	0	0	868	33	64	29	7	0	868	36	19	40	23	19	845
D. more than two hours	6	2	67	1	33	0	0	0	0	863	7	67	33	0	0	863	5	19	36	22	23	844
<b>Which of the following best describes how you rate yourself as a student in mathematics?</b>																						
A. very good	48	14	64	5	23	3	14	0	0	866	51	67	19	14	0	866	28	33	41	15	11	852
B. good	41	7	37	8	42	3	16	1	5	857	41	41	35	18	6	858	45	11	43	25	21	842
C. fair	11	0	0	4	80	0	0	1	20	842	7	0	100	0	0	850	21	3	27	35	35	834
D. poor	0										0						5	2	14	30	54	828
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?</b>																						
A. The questions on the test match what I have learned in mathematics class.	55	14	54	10	38	2	8	0	0	865	55	61	30	9	0	867	28	23	41	21	15	848
B. They match some of what I have learned.	36	5	29	8	47	2	12	2	12	853	36	33	47	13	7	856	52	13	40	25	21	843
C. They match just a little of what I have learned.	9	2	50	0	0	2	50	0	0	852	10	50	0	50	0	852	16	8	28	30	34	836
D. There is no match.	0										0						4	5	15	22	58	826
<b>How difficult was the mathematics part of this test?</b>																						
A. more difficult than my regular schoolwork	18	3	38	3	38	1	13	1	13	851	18	43	29	14	14	851	32	6	34	29	32	837
B. about the same as my regular schoolwork	44	3	15	13	65	3	15	1	5	852	43	18	65	18	0	854	52	13	41	25	20	843
C. easier than my regular schoolwork	38	15	88	2	12	0	0	0	0	876	40	94	6	0	0	877	16	39	35	13	13	853
<b>How hard did you try on the mathematics part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	36	6	35	7	41	3	18	1	6	856	38	38	38	19	6	857	42	12	38	26	25	841
B. I tried about the same as I do on my regular schoolwork.	60	14	50	11	39	2	7	1	4	862	57	58	33	8	0	866	52	17	39	23	20	845
C. I did not try as hard on this test as I do on my regular schoolwork.	4	1	50	0	0	1	50	0	0	851	5	50	0	50	0	851	7	12	27	27	35	837
<b>How often do you use calculators in mathematics class?</b>																						
A. almost every day	70	19	59	9	28	3	9	1	3	864	68	68	21	11	0	868	34	18	40	22	20	845
B. two or three days a week	24	1	9	7	64	2	18	1	9	849	24	10	60	20	10	848	35	14	38	26	21	843
C. two or three times each month	4	1	50	1	50	0	0	0	0	855	5	50	50	0	0	855	18	12	37	27	24	841
D. never or almost never	2	0	0	0	0	1	100	0	0	838	2	0	0	100	0	838	13	9	32	25	34	837
<b>How often do you use laptops in mathematics class?</b>																						
A. almost every day	4	0	0	1	50	1	50	0	0	847	5	0	50	50	0	847	9	13	38	23	26	841
B. two or three days a week	11	2	40	1	20	1	20	1	20	846	12	40	20	20	20	846	17	11	37	26	26	841
C. two or three times each month	6	0	0	3	100	0	0	0	0	854	7	0	100	0	0	854	28	15	40	25	20	844
D. never or almost never	79	19	51	13	35	4	11	1	3	863	76	59	28	13	0	866	46	16	36	24	23	843
<b>How do you feel about the following statement?</b>																						
<b>"My knowledge of mathematics will be useful to me as an adult."</b>																						
A. strongly agree	61	17	61	10	36	1	4	0	0	866	63	65	31	4	0	867	52	19	41	22	18	846
B. agree	28	4	31	4	31	3	23	2	15	851	24	40	20	30	10	855	39	11	35	27	27	840
C. disagree	7	0	0	1	33	2	67	0	0	843	7	0	33	67	0	843	6	7	28	26	39	835
D. strongly disagree	4	0	0	2	100	0	0	0	0	852	5	0	100	0	0	852	3	4	25	28	43	832
<b>Optional school/SAU question</b>																						
A.	33	1	100	0	0	0	0	0	0	864	33	100	0	0	0	864						
B.	0										0											
C.	67	0	0	1	50	1	50	0	0	843	67	0	50	50	0	843						
D.	0										0											

# SCIENCE RESULTS

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (Scaled Score 862–880)	2008-2009*	23	49	22	52	2155	15
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (Scaled Score 842–860)	2008-2009*	17	36	13	31	6687	47
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (Scaled Score 828–840)	2008-2009*	6	13	6	14	3672	26
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems. Explanations are illogical, incomplete, or missing. There are many inaccuracies. (Scaled Score 800–826)	2008-2009*	1	2	1	2	1749	12

Learning Results Content Standards	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Science Total Points</b>	56	100	39.9	71.3	40.3	72.0	32.0	57.1
<b>D. The Physical Setting</b>	31	55	21.6	69.7	21.9	70.6	17.1	55.2
<b>D1/D2 Earth/Space</b>	17	30	11.8	69.4	11.9	70.0	9.4	55.3
<b>D3/D4 Matter and Energy/Force and Motion</b>	14	25	9.8	70.0	10.0	71.4	7.7	55.0
<b>E. The Living Environment</b>	25	45	18.3	73.2	18.4	73.6	14.9	59.6

The MEA assesses students’ science knowledge based on questions that measure the science accountability content standards highlighted in Maine’s 2007 *Learning Results: Parameters for Essential Instruction*, which can be found at: <http://www.maine.gov/education/lres/pei/index.html>.

Content Standard D. The Physical Setting  
D1 - Universe and Solar System  
D2 - Earth  
D3 - Matter and Energy  
D4 - Force and Motion

Content Standard E. The Living Environment  
E1 - Biodiversity  
E2 - Ecosystems  
E3 - Cells  
E4 - Heredity and Reproduction  
E5 - Evolution

# SCIENCE RESULTS

## (CONTINUED)

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	47	23	49	17	36	6	13	1	2	859	42	52	31	14	2	859	14263	15	47	26	12	846
<b>Ethnicity</b>																						
African American/Black	0										0						360	4	31	35	30	835
American Indian or Native Alaskan	4										2						114	8	39	31	22	839
Asian or Pacific Islander	1										1						230	20	44	23	13	848
Hispanic	1										1						184	9	45	29	16	842
Caucasian/White	41	21	51	13	32	6	15	1	2	859	38	53	29	16	3	859	13375	15	47	25	12	846
Not Reported	0										0						0					
<b>Identified disability</b>																						
Yes	10	1	10	2	20	6	60	1	10	840	9	11	11	67	11	839	2221	3	22	36	38	832
No	37	22	59	15	41	0	0	0	0	864	33	64	36	0	0	865	12042	17	51	24	7	848
<b>Current LEP</b>																						
Yes	0										0						331	4	20	39	37	832
No	47	23	49	17	36	6	13	1	2	859	42	52	31	14	2	859	13932	15	48	25	12	846
<b>Economically disadvantaged</b>																						
Yes	11	2	18	4	36	4	36	1	9	845	11	18	36	36	9	845	5184	6	40	33	21	840
No	36	21	58	13	36	2	6	0	0	863	31	65	29	6	0	864	9079	20	51	21	8	849
<b>Migrant</b>																						
Yes	0										0						5	0	0	80	20	829
No	47	23	49	17	36	6	13	1	2	859	42	52	31	14	2	859	14258	15	47	26	12	846
<b>Gender</b>																						
Female	17	7	41	7	41	2	12	1	6	856	15	47	33	13	7	858	6953	14	47	28	11	846
Male	30	16	53	10	33	4	13	0	0	860	27	56	30	15	0	860	7310	16	46	24	13	846
Not Reported	0										0						0					
<b>Title 1A targeted program</b>																						
Yes	20	3	15	14	70	3	15	0	0	851	15	13	67	20	0	850	828	5	35	40	20	839
No	27	20	74	3	11	3	11	1	4	865	27	74	11	11	4	865	13435	16	48	25	12	846
<b>Gifted/talented program</b>																						
Yes	2										2						699	65	34	2	0	865
No	45	21	47	17	38	6	13	1	2	858	40	50	33	15	3	859	13564	13	48	27	13	845

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# SCIENCE RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2009  
Grade: 8  
SAU: Orono School Department  
School: Orono Middle School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	15	2	29	4	57	1	14	0	0	859	14	33	50	17	0	861	8	8	34	28	30	837
B. less than one hour	49	8	35	10	43	4	17	1	4	854	45	37	37	21	5	854	51	14	48	27	11	846
C. one to two hours	30	11	79	2	14	1	7	0	0	866	33	79	14	7	0	866	36	19	48	24	9	848
D. more than two hours	6	2	67	1	33	0	0	0	0	861	7	67	33	0	0	861	5	17	49	20	14	847
<b>Which of the following best describes how you rate yourself as a student in science?</b>																						
A. very good	17	6	75	0	0	2	25	0	0	863	19	75	0	25	0	863	23	27	47	17	8	851
B. good	70	17	52	13	39	2	6	1	3	860	71	53	37	7	3	861	53	15	50	26	10	847
C. fair	9	0	0	4	100	0	0	0	0	848	5	0	100	0	0	847	20	4	43	35	18	840
D. poor	4	0	0	0	0	2	100	0	0	840	5	0	0	100	0	840	4	4	27	34	35	834
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about science?</b>																						
A. The questions on the test match what I have learned in science class.	40	10	53	8	42	1	5	0	0	862	38	56	38	6	0	864	26	20	49	23	9	849
B. They match some of what I have learned.	51	13	54	8	33	3	13	0	0	860	52	59	27	14	0	861	51	14	48	26	11	846
C. They match just a little of what I have learned.	9	0	0	1	25	2	50	1	25	835	10	0	25	50	25	835	18	13	44	28	15	844
D. There is no match.	0										0						4	5	33	30	32	836
<b>How difficult was the science part of this test?</b>																						
A. more difficult than my regular schoolwork	28	7	54	4	31	2	15	0	0	857	31	54	31	15	0	857	32	13	45	28	14	844
B. about the same as my regular schoolwork	57	13	48	10	37	3	11	1	4	859	52	55	27	14	5	860	56	15	49	25	11	847
C. easier than my regular schoolwork	15	3	43	3	43	1	14	0	0	861	17	43	43	14	0	861	11	21	43	22	13	847
<b>How hard did you try on the science part of this test?</b>																						
A. I tried harder on this test than I do on my regular schoolwork.	44	9	45	8	40	3	15	0	0	859	48	47	37	16	0	859	39	14	47	27	12	845
B. I tried about the same as I do on my regular schoolwork.	49	13	59	9	41	0	0	0	0	863	45	67	33	0	0	866	55	17	48	25	10	847
C. I did not try as hard on this test as I do on my regular schoolwork.	7	1	33	0	0	2	67	0	0	847	8	33	0	67	0	847	6	8	36	29	26	839
<b>Which courses do you plan to take before you graduate from high school?</b>																						
A. earth and space science and/or biology	15	1	14	4	57	2	29	0	0	849	14	17	50	33	0	849	26	9	48	29	14	844
B. the course(s) described in A, plus chemistry	30	8	57	4	29	2	14	0	0	861	31	54	31	15	0	861	23	17	49	22	12	847
C. the course(s) described in B, plus physics	38	14	78	3	17	1	6	0	0	867	40	82	12	6	0	868	21	31	44	17	7	852
D. a life science and physical science class	17	0	0	6	75	1	13	1	13	843	14	0	67	17	17	842	30	7	46	32	14	842
<b>How well does the following statement reflect your future goals? "I am interested in a career related to science, technology, engineering, or mathematics."</b>																						
A. strongly agree	40	10	53	7	37	2	11	0	0	862	40	59	29	12	0	864	27	23	47	20	10	849
B. agree	43	11	55	5	25	3	15	1	5	857	40	59	18	18	6	857	37	14	47	27	12	846
C. disagree	13	2	33	4	67	0	0	0	0	859	14	33	67	0	0	859	25	11	48	29	12	845
D. strongly disagree	4	0	0	1	50	1	50	0	0	844	5	0	50	50	0	844	11	9	44	31	17	842
<b>How do you feel about the following statement? "My knowledge of science will be useful to me as an adult."</b>																						
A. strongly agree	45	12	57	8	38	1	5	0	0	863	45	63	32	5	0	864	31	22	46	22	10	849
B. agree	38	9	50	4	22	5	28	0	0	857	38	50	19	31	0	857	50	14	49	26	11	846
C. disagree	17	2	25	5	63	0	0	1	13	853	17	29	57	0	14	853	14	9	45	31	15	843
D. strongly disagree	0										0						5	3	38	34	25	837
<b>Optional school/SAU question</b>																						
A.	33	0	0	1	100	0	0	0	0	856	33	0	100	0	0	856						
B.	0										0											
C.	67	0	0	0	0	2	100	0	0	834	67	0	0	100	0	834						
D.	0										0											

E = Exceeds the Standards   M = Meets the Standards   P = Partially Meets the Standards   D = Does Not Meet the Standards  
N = Number